



## 2.3 TEACHING- LEARNING PROCESS

Report on Student Centric Methods 2017-18



**WMO Arts & Science College, Muttil**

**Kalpetta, Wayanad, Kerala 673122**

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# DEPARTMENT OF MATHEMATICS

## WMO ARTS & SCIENCE COLLEGE

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Report on Student centric methods, such as experiential learning, participative learning, and problem solving methodologies used for enhancing learning experiences using ICT tools

**Mathematics**

**2017 - 2018**

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## 1. Invited Talks

The department conducted two invited talks. A talk on 'Intuitive Abstract Algebra' was conducted on 12.06.2018. Mr. Latheeshkumar A R, Assistant Professor, St Mary's College was the resource person. Ms Viji C B, Assistant Professor, Maharajas College, Ernakulam interacted with final year students and she spoke on "Higher education in Mathematics on 17.10.2017.

## 2. Kerala Piravi Celebration

Celebrating Keralapiravi on 01.11.2017, Mathematics Association conducted special talks on 'Renaissance in Kerala. Some of the students recited their own poems and documentaries were exhibited. The programme was inaugurated by Mr Shyju, Department of Malayalam.





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### 3. Student projects (2017-18)

Sl. No.	Title of the project	UG/ PG	Name of the student	Institute of the supervisor
1	Cluster analysis	UG	RANOOP A R	W M O Arts & Science College
2	Cluster analysis	UG	BASIL JOHN	W M O Arts & Science College
3	Cluster analysis	UG	ABHAYANAD P	W M O Arts & Science College
4	Graph coloring	UG	UNNIMAYA VINOD	W M O Arts & Science College
5	Graph coloring	UG	ATHULYA P S	W M O Arts & Science College
6	Graph coloring	UG	ARYA ARAVIND	W M O Arts & Science College
7	Applications of Graph theory	UG	RANJITHA P	W M O Arts & Science College
8	Applications of Graph theory	UG	NIHALA THAZNEEM	W M O Arts & Science College
9	Applications of Graph theory	UG	JISHNA RAJ	W M O Arts & Science College
10	Applications of Graph theory	UG	MUHAMMED SHAFI P	W M O Arts & Science College
11	Applications of Graph theory	UG	AJMAL C S	W M O Arts & Science College
12	Applications of Graph theory	UG	JESHIN P	W M O Arts & Science College
13	Applications of Fibonacci sequence	UG	ABDUL DASHID	W M O Arts & Science College
14	Applications of Fibonacci sequence	UG	HARI PRASAD	W M O Arts & Science College
15	Applications of Fibonacci sequence	UG	MUHAMMED SHAHEER C	W M O Arts & Science College
16	Catalan number	UG	BLESSY JOSE	W M O Arts & Science College
17	Catalan number	UG	ANSILA T P	W M O Arts & Science College
18	Catalan number	UG	MISNA	W M O Arts & Science College
19	Eulers polyhedron formula and its application	UG	RIYA SCARIYA	W M O Arts & Science College



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20	Eulers polyhedron formula and its application	UG	HAIRUNNISA	W M O Arts & Science College
21	Eulers polyhedron Formula and its application	UG	DIYA T ELDHO	W M O Arts & Science College
22	Trasportation Problem	UG	NISA	W M O Arts & Science College
23	Trasportation Problem	UG	FARSANA	W M O Arts & Science College
24	Trasportation Problem	UG	HANEENA RAHIM	W M O Arts & Science College
25	Conjectures in Mathematics	UG	MISRIYA C H	W M O Arts & Science College
26	Conjectures in Mathematics	UG	JIHANA	W M O Arts & Science College
27	Conjectures in Mathematics	UG	AYSHARINU K A	W M O Arts & Science College
28	Sequential Problem	UG	ANEESHA BABU	W M O Arts & Science College
29	Sequential Problem	UG	NIHALA P	W M O Arts & Science College
30	Sequential Problem	UG	SHAMSEETHA	W M O Arts & Science College

#### 4. National Mathematics Day Celebrations

Observing National Mathematics Day, a series of programs were conducted in the third week of December 2018. A Poster exhibition was conducted on 22.12.2017. A Mathematics Quiz and Treasure hunt involving mathematical puzzles were conducted and the winners were awarded prizes. A documentary on the Life of Ramanujan and his contributions was exhibited.







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## 5. Observance of Pi Day

Observing Pi Day, various programmes including presentations, Quiz and puzzles were conducted by first year BSc Mathematics students and prizes were distributed to the winners.



prize – Devendran K and Amjad Roshan M K , BSc Physics,





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II prize – Sreelakshmi and Mufeetha K A,

III prize – Akhina Prasad and Saisree M P,

BSc Physics,

BSc Chemistry

## **6. The Mathematical Circle**

Students of Dept. of Mathematics and Dept. of Statistics were divided in to 16 groups and they lead meetings of the Mathematical Circle performing various events like Exploring new mathematical ideas, Mathematical games and puzzles, short math quizzes, Math magics, problem contests etc. A total of 9 meetings of the Circle was conducted during the year 2017-18.







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Circle meeting - 15

Date :- 03-08-2017

Time :- 3.30 - 4.30

Venue :- D<sub>2</sub> Maths

Team

1. Avina .A.S
2. Ashley parvin .K.P
3. Hisara Jasmine
4. sherin shahana.
5. Nabeesa Misiriya .P
6. Subaira .K.P
7. Sarangh .M.J
8. Ajith Mathai
9. VIVEK .T.R

Sl. no	Name	class	Signature
1.	Riya Scaria	D <sub>3</sub> Maths	
2.	Husunnisa .M	"	
3.	Asya Anand	"	
4.	Nihala Husneem .K	"	
5.	Farsana k.	"	
6.	Duja .T. Eldha	"	
7.	Shamseetha .T.M	"	
8.	Nafeesathul Misriya .CH	"	
9.	Hameena Jasmira .M	"	
10.	Blessy Jose	"	
11.	Rasena .k	D <sub>2</sub> Maths	
12.	Pavana .k .M	"	
13.	Fasna Femi .k	"	





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Sl-no	Name	class	Signature
14.	Jishana shemin-k	D2 Maths	
15	Rubeena P.T	"	
16	Shadi Nilofar	D1 Maths	
17	Arshadha S.M	"	
18	Jafry M.J	"	
19	Lubana P.K	"	
20	Anuqa Kooli	"	
21	Amruthya Anil	"	
22	Neezha S. Lakshmi	"	
23.	Ajmeila T.D	"	
24	Punsha Febin.T	"	
25.	Fidha Khao.P	"	
26.	Rabeels Mumthaz	"	
27	Aysha Nitha	"	
28.	Fehuna Shameer	"	
29.	Ahsana Fathima	"	
30	Basil John	D3 Maths	
31	Ranoop. A.R	"	
32	Ajmal C.S	"	
33	Aysha Rinu. K.A	"	
34	Ansils. T.P	"	
35	Misna.K	"	
36	Jeshin P	"	
37	<del>Abhinav</del> Abhinav P	"	
38	Muhammed shafi	"	
39	Aneesha Babu	"	
40.	Abdul Basith.K	"	
41	Jishna R	"	
42	Ranjith.P	"	
43	Nihala P	"	
44	Kadheegathul Shanija	Dsc. maths D1	
45	Deepthy A	"	





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Sl. No.	Name	Course	Signature
46	Fathimath Suhara .T	BSc Maths D <sub>1</sub>	<i>Fathimath</i>
47	Nishwadeya .V.R	"	<i>Nishwadeya</i>
48	Asmisha .S	"	<i>Asmisha</i>
49	Fasna .T	"	<i>Fasna</i>
50	Fareena .N.K	"	<i>Fareena</i>
51	Shidha .K	"	<i>Shidha</i>
52	Dilshad .Akthar .U.K	BSc Math D <sub>2</sub>	<i>Dilshad</i>
53	Tony Joseph	"	<i>Tony</i>
54	Basil Elaho	BSc Maths D <sub>1</sub>	<i>Basil</i>
55	Akshil Joseph	BSc maths D <sub>1</sub>	<i>Akshil</i>
56	Muhammed Sahal O.I	BSc maths D <sub>1</sub>	<i>Muhammed</i>
57	Mujeeb Rahman .K	BSc Maths D <sub>2</sub>	<i>Mujeeb</i>
58	Sreya N Mathai	"	<i>Sreya</i>
59	Ramshad V	D <sub>2</sub> Mathematics	<i>Ramshad</i>
60	Vishakh.T.R	D <sub>2</sub> Mathematics	<i>Vishakh</i>
61	Raseena .Mol	"	<i>Raseena</i>
62	Kavya PV	"	<i>Kavya</i>
63	Fasna K	"	<i>Fasna</i>
64	Suhik k k	"	<i>Suhik</i>
65	Fathima Shamila	"	<i>Fathima</i>
66	Thasleem Sheerin	"	<i>Thasleem</i>
67	Asmila Jasmin	"	<i>Asmila</i>
68	Lubna Thesni	"	<i>Lubna</i>
69	Bismiyya .K	"	<i>Bismiyya</i>
70	Muhsina .P.k	"	<i>Muhsina</i>
71	Jemala .m.T	"	<i>Jemala</i>
72	Fareena Sheerin .K	"	<i>Fareena</i>
73	Fareena .E.K	"	<i>Fareena</i>
74	Maya .M	"	<i>Maya</i>
75	Surya Raju VR	"	<i>Surya</i>
76	Kasthika MV	"	<i>Kasthika</i>
77	Reseena mol	"	<i>Reseena</i>



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78	Jamol George	BSc Maths. D <sub>2</sub>	
79	Aiswarya P	"	
80	Athulya P.S	D <sub>3</sub> Maths	
81	Unnimaya Vinod	D <sub>3</sub> Maths	
82	Ajeetha C	D <sub>2</sub> Maths	
83	Anjala-Nasheen N.S	D <sub>2</sub> Maths	
84	Jubaina K.P	"	
85	Nabeesa Missiya	"	
86	Ashley Parvin K.P	"	
87	Shesin shabana	"	
88	Arina A.S	"	
89	Hisara Jasmine	"	
90	Vivek T.R	"	
91	Sasangh M.S	"	

### Report

Our group 'MATH VIRUS' (D<sub>2</sub> Mathematics) conducted the circle meeting on 3-9-2017 thursday at 5:30pm. (Venue-D<sub>2</sub> Mathematics). Firstly, Dr Viji Paul - HOD of mathematics gave an opening speech. Then Miss Blessy (D<sub>3</sub> Mathematics) welcomed all especially the first year students, new members of our family.

Ashley Parvin K.P introduced the group members. Arina A.S talked about applications of logarithms and Ritchen scale. After that Vivek T.R performed two puzzles. One was based on number sequence and the other was regarding number of squares. One of the puzzles was answered by Fasma K (D<sub>2</sub> Mathematics). Nabeesa Missiya P and Jubaina K.P conducted a quiz program. Kavya and team won the prize. Another game was to solve the Rubik's cube. Dilshad Akhtan (D<sub>2</sub> Mathematics) was the winner. He mentioned about various types of Rubik's cubes.





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and algorithms. Hisana Jasmine and Sherin Shahana  
introduced another puzzle on coins. Vishakh T.R and  
Muhammed Sahal ( $D_1$ -Mathematics) solved the puzzle.  
Sanangh MJ performed a magic with playing cards.  
Kavya P.V ( $D_2$ -Mathematics) and Basil Joseph ( $D_1$  Mathematics)  
also participated. Ramshad N ( $D_2$ -Mathematics) explained  
the trick behind the magic (the binary numbers).  
Prizes were distributed. (Prizes sponsored by Ajith  
Mathai). We also payed homage to Iranian Mathematician  
(who passed away on July). Mania Minzakhani first  
women who won the Field's Medal. Ashley welcomed  
Mr. Shaheel, Department of statistics to the math family.  
At last Sanangh thanked all. Meeting was dissolved  
at 4:30 pm.





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**CIRCLE MEETING-19**

Group : Infinity

Date : 28-08-2018

Time : 3:30 pm

Venue : Da Maths

Team :

- Saipranav
- Basil Eldho
- Ajinisha
- Mubhishira
- Deepthy
- Sufiyana
- Raheela Mumtas

SL NO	NAME	CLASS	SIGNATURE
1.	Neesada .d. Lakshmi	D <sub>1</sub> Mathematics	
2.	Amrutha Anil	D <sub>1</sub> - Mathematics	
3.	Aiswarya V.P	"	
4.	Arshadha S.M	"	
5.	Febina Sherin	"	
6.	Fathimathu Sufiyana	"	
7.	Sneha .T.S	"	
8.	Shahas bannu .N	"	
9.	Megha Shaji	"	
10.	HPSara Jasmine	D <sub>2</sub> Mathematics	
11.	Aiswarya .P	"	
12.	Nabeesa Misra .P	"	
13.	Fathima Shuba P.K	D <sub>1</sub> Mathematics	
14.	Fasna T	"	
15.	Nikhila .V.K	D <sub>2</sub> mathematics	



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16	Swaya Raju V R	D <sub>2</sub> Mathematics	<del>Swaya</del>
17	mayu. m	"	<del>Mayu</del>
18	Mubina Pk	"	Mubina
19	Avina A.S	"	<del>Avina</del>
20	Fathima Shamila c	"	<del>Shamila</del>
21	Sherin Shahana	"	<del>Sherin</del>
22	Suhaila. k. k	"	<del>Suhaila</del>
23	Bismiya	"	<del>Bismiya</del>
24	Fasna. k	"	<del>Fasna</del>
25	Thasleena. Sherin	"	<del>Thasleena</del>
26	Rishana.	D <sub>1</sub> Maths	<del>Rishana</del>
27	Shidha. K	"	<del>Shidha</del>
28	Farsana. NK	"	<del>Farsana</del>
29	Aniya Roobi	"	<del>Aniya</del>
30	Ahsana Fathima	"	<del>Ahsana</del>
31	Suhaila A	"	<del>Suhaila</del>
32	Khadeejathul shanija	"	<del>Khadeeja</del>
33	Suhaila. A. T	"	<del>Suhaila</del>
34	ASNA. C.H	"	<del>ASNA</del>
35	Lubana. P. k	"	<del>Lubana</del>
36	Shaeli Nibifer	"	<del>Shaeli</del>
37	Rinsha febin. T	"	<del>Rinsha</del>
38	Fudha Khan. P	"	<del>Fudha</del>
39	Fathimath Subara. G	"	<del>Fathima</del>
40	Fobina shameer	"	<del>Fobina</del>
41	Aysha Luella	"	<del>Aysha</del>
42	Jaiya M. T	"	<del>Jaiya</del>
43	Fareeda. V. S	"	<del>Fareeda</del>
44	Ajmila T. A	"	<del>Ajmila</del>
45	Aysha Nitha	"	<del>Aysha</del>
46	Saranga M. J	D <sub>2</sub>	<del>Saranga</del>
47	Ramhad V	D <sub>2</sub>	<del>Ramhad</del>





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48.	Tony Joseph	D <sub>2</sub> - Maths	
49.	Akrash k vijayan	"	
50.	Saeedraj. v	"	
51.	Museeb Rahman .k	"	
52.	Sreeraj N mathai	"	
53.	Vivek .T.R.	"	
54.	Visbakh .T.R	D <sub>2</sub> Mathematics	
55.	Akbil Joseph	D <sub>2</sub> Mathematics	
56.	Dilshad Akhtar vic	D <sub>2</sub> mathematics	
57.	Muhammed Sahal oif	D <sub>1</sub> maths	
58.	Jishana Sheemin	D <sub>2</sub> Maths	
59.	Ashley Parvin	"	
60.	Fasana sheerin	"	
61.	Pavana .k.M	"	
62.	Fasna Femin	"	
63.	Rubeena .P.T	"	
64.	Rasceera .k	"	
65.	Kavya P.V	"	
66.	Basil Eklho	D <sub>1</sub> maths	
67.	Afnisha R.S	"	
68.	Raheela Mumthaz	"	





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## REPORT OF THE MEETING

INFINITY, group 3 of D1 Mathematics has conducted the circle meeting on 28/03/2018 at 3:30 pm. Group member Saipravar welcomed the gathering, and introduced other members to the audience.

Rabeela Mumthaz delivered a talk about the importance of Pi-day and Pi. Ajinsha, then spoke about the great Mathematician John Wallis. Mubashira and Deepthy conducted puzzle competition and winners (Aina, Amathya), were given prizes. A quiz about Pi-day was conducted by Basil and Saipravar and the winners (Ramshad, Sarangh, Raseena, Akhil, Vivek) were given pens. Finally, Sufiyana presented ceaser-square box puzzles and Saipravar proposed vote of thanks. Meeting was dispersed at 4:15 pm.



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Report of circle meeting held on 17-8-2017

Group zeroes (D2 Mathematics) conducted the programme for circle meeting on 17-8-2017 at 3:30 pm. Mathematics association secretary Dilshad Akthar welcomed the gathering.

Sreesaj-N-Mathai introduced the group members and started the programme with a talk related to cryptography. Later on Kavya P.V spoke about the historical background of cryptography. Then Subaila gave a brief description about cryptography and its importance in our daily life. Akash was incharge of showing photographs of mathematicians who were great contributors to the development of cryptography. Some puzzles related to this topic was conducted by Pavana K.M and chocolates were distributed to the winners (Raseena, Afeefa, Basil, Ranoop, Avina, Fasma Fernin). Rest of the puzzles were presented by Bismiya and Jishana. At last Sreesaj-N-Mathai proposed vote of thanks. Meeting was dispersed at 4:30 pm.



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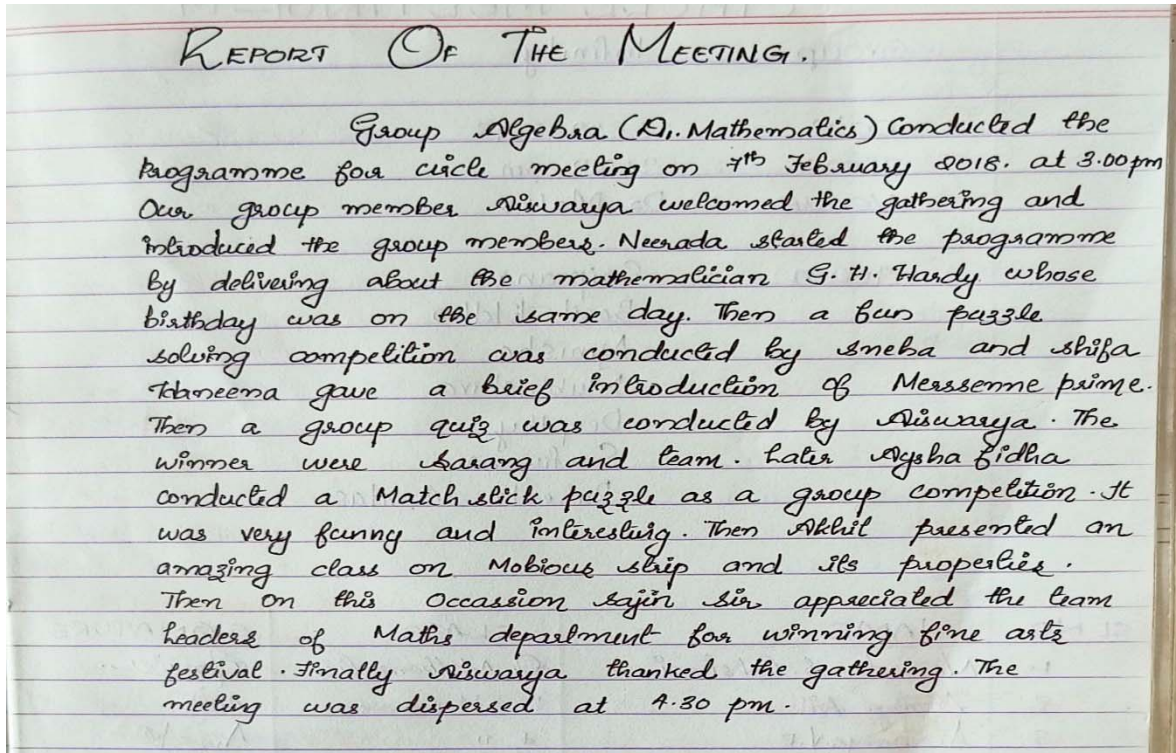
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## 7. Manuscript Magazine

A manuscript magazine 'Orovil' was released on first week of April. Ms Nabeesa Misriya, II BSc Mathematics was the student editor of the magazine.





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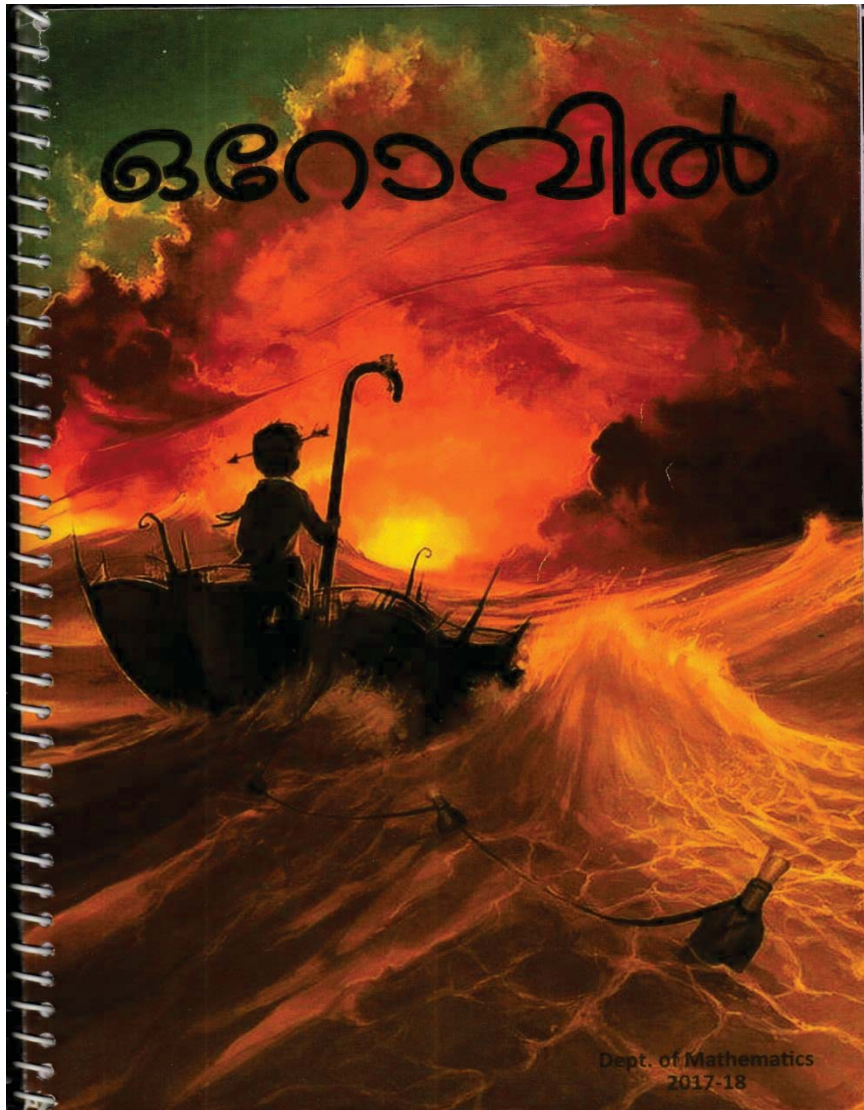
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## **8. Mathematical Problems Contests**

With the aim of motivating the students, Mathematics Problem Contests are conducted every month which is designed to challenge the students and bring the best in them to the fore. The problems are of a very different nature from the problems students usually encounter during their college curriculum. During the year, Five Mathematics problems contests were conducted. Mr Vivek T R, Mr. Vishak T R, Mr Muhammed Shaheer, Ms. Hairunnisa, and Ms Kavya P V were the winners.

## **9. Association Activities**



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Association Secretary Mr. Dilshad Akthar and team co-ordinated the meetings of the Mathematical Circle and other activities like Observance of National Mathematics Day, Kerala Piravi, Pi Day, Farewell meet etc.

### **10. Extension Program**

A coaching programme for competitive examinations was conducted for degree students of the Wayanad district. Twenty-five students participated.

### **11. Achievements of students**

1. Students participated in various intercollegiate events and won many prizes. The following are some of the achievements of students during 2017-18.
2. Kavya P V and Sarang M J of II BSc Mathematics won I prize in the intercollegiate Mathematics Quiz held at St. Joseph's College, Devagiri, on 6-2-2018
3. Sarang M J and Kavya P V of II BSc Mathematics won III prize in the intercollegiate Mathematics Quiz held at Farook College, Kozhikode on 22-1-2018
4. Shamila Fathima of II BSc Mathematics won I Prize in the Quiz conducted by Women's cell and Quiz club in association with National Women's Commission.
5. Sarang M J and Kavya P V of II BSc Mathematics won I prize in the intercollegiate Mathematics Quiz held at Mary Matha Arts & Science College, Mananthavady, on 21-2-2018.
6. Many students won prizes for individual and group items during F-Zone Arts Fest.

### **12. Study Tour**

A study tour was conducted during 31.12.2017 to 04.01.2018 to Thiruvananthapuram, Kanyakumari, and Ernakulam. A team of 27 students and 5 teachers participated.



# DEPARTMENT OF COMPUTER SCIENCE

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website: [www.wmcollege.ac.in](http://www.wmcollege.ac.in)

**Report on Student methods, such as experiential learning, Participative and Problem solving methodologies are used for enhancing learning experiences using ICT tools 2017-18**

**Contents**

SI	
1	ICT Facilities available in the department
2	Laboratory Courses
3	Skill Development Programme
4	Student Projects
5	Workshops
6	Extension activities
7	Festival celebration
8	Placements
9	Higher Studies in Prestigious Institutions
10	Achievements of the students in curricular and extracurricular activities

**1. ICT Facilities available in the department**

Departmental ICT facilities are enclosed as follows

Sl No	Item	Quantity
1	Smart class rooms	2
2	Computer Lab	1
3	Computers	40
4	Printers and scanners	3
5	Embedded podium	1
6	Web cameras	1
7	Sound system	2
8	Smart Lab	1

**2. Laboratory Courses**



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As a department of programming science a variety of programming labs are introduced in smart lab.

1	HTML
2	Java Programming
3	VB.NET
4	Visual Programming Using C#.Net
5	PHP
6	DBMS Programming using SQL
7	C Programming

### 3. Skill Development Programme

Sl. No.	Subject	Title	Date	Resource Person
1.	Career in Information Technology	Seminar	17.10.2017	Mr. Dickson Jose (Career information Trivanrdum)
2.	CYBER SECURITY & ETHICAL HACKING	Seminar	2.2.2018	Mr. Arun Scaria (Emigo Network Experts Pvt. Ltd)



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website: www.wmo college.ac.in

#### 4. Student Project

A project report on


**IMPLEMENTATION OF TELEGRAM CHATBOT USING**  
**TELEPOT PYTHON FRAMEWORK**

Submitted in partial fulfillment of the requirements for the

Degree of

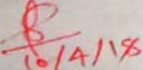
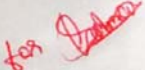
**BACHELOR OF COMPUTER APPLICATION**

**FOR THE ACADEMIC YEAR 2017-2018**



Submitted by

Muhammed Anas P A	WMAPBCA010
Sabeel K M	WMAPBCA026
Arshad P P	WMAPBCA022
Shahina M	WMAPBCA005

<b><u>Internal Guide</u></b>	<b><u>External Guide</u></b>
 <b>Mr. Sibin Sebastian</b>	 <b>Rasheed N K</b>
<b>(Asst. Professor BCA Dept...)</b>	<b>(Professor BCA Dept...)</b>

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**MUTTIL**





**DEPARTMENT OF COMPUTER SCIENCE  
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**Department of computer science**

**Calicut University**

**WMO ARTS AND SCIENCE COLLEGE**


**MUTTIL**



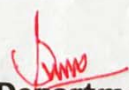
**Certificate**

Certified that this report titled **"IMPLEMENTATION OF TELEGRAM CHATBOT USING TELEPOT PYTHON FRAMEWORK"** is a bonafide record of the project work done by Mr. **Muhammed Anas P A, Sabeel K M, Arshad P P and Shahina M** under our supervision and guidance, towards partial fulfillment of the requirement for award of the Degree of Bachelor of Computer Application (BCA) of the Calicut University


**Faculty in-charge**

  
10/4/18

**Head of the Department.**

  
**SUMA. N.**  
ASSO. PROFESSOR  
Dept. of Computer Science  
WMO, Arts & Science College  
Muttill. P.O., Wayanad - 673 122

**Examiners**

1.   
10/4/18
- 2.

**Name of Candidate: Muhammed Anas P A, Sabeel K M, Arshad P P and Shahina M**

**Registration No: WMAPBCA010, WMAPBCA026, WMAPBCA022, WMAPBCA005**



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A project report on

**LIBRARY MEMBERS APP**

Submitted in partial fulfillment of the requirements for the

degree of

**BACHELOR OF COMPUTER APPLICATION**


**FOR THE ACADEMIC YEAR 2017-2018**



Submitted by

MUHAMMED SAHEER K.C	WMAPBCA025
MUNAVIRA C.K	WMAPBCA003
JASEERA K.T	WMAPBCA015
SHAHANA P.S	WMAPBCA001

**Internal Guide External Guide**

  
10/14/18

Mr.Sibin Sebastian

(Asst.professor BCA dept.)



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**WMO ARTS AND SCIENCE COLLEGE  
MUTTIL**



**certificate**


Certified that this report titled "**LIBRARY MEMBERS APP**" is abonafide record of the project work done by Sri/ Kum----- under our supervision and guidance, towards partial fulfillment of the requirement for award of the Degree of Bachelor of Computer Application (BCA) of the Calicut University

**Faculty in-charge**   
10/4/18

  
**Head of the Department.**

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**Examiners**

1. 
- 2.

**Name of Candidate :**

**Registration No :**

**Examination Center: W.M.O Arts and Science College**

**Date of Exam : 10/4/2018**





**DEPARTMENT OF COMPUTER SCIENCE  
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A project report on

**SAFE ROAD APPLICATION**

Submitted in partial fulfillment of the requirements for the

degree of

**BACHELOR OF COMPUTER APPLICATION**

**FOR THE ACADEMIC YEAR 2017-2018**



Submitted by

SHAHANA FARVIN

WMAPBCA004

AB00BACKER FARIS K

WMAPBCA008

NIZAM C.K

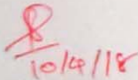
WMAPBCA011

MIDHULAJ

WMAPBCA021

Internal Guide

External Guide

  
10/19/18  
Mr.Sabin Sebastian

(Asst.professor BCA dept.)



**WMO ARTS AND SCIENCE COLLEGE MUTTIL**

**Department of computer science**

**Calicut University**



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Certified that this report titled "**SAFE ROAD APPLICATION**" is a bonafide record of the project work done by Sri/ Kum **4 dots** under our supervision and guidance, towards partial fulfillment of the requirement for award of the Degree of Bachelor of Computer Application (BCA) of the Calicut University

**Faculty in-charge**

*[Signature]*  
10/4/18

**Head of the Department.**

*[Signature]*  
**SUMA. N.**  
ASSO. PROFESSOR  
Dept. of Computer Science  
WMO, Arts & Science College  
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**Examiners**

1. *[Signature]*
- 2.

**Name of Candidate : 4 dots**

**Registration No :**

**Examination Center: W.M.O Arts and Science College**

**Date of Exam : 10/04/18**



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website: www.wmoecollege.ac.in

**A project report on**

**ONLINE VOTING SYSTEM**

**Submitted in partial fulfilment of the requirements for the**

**degree of**

**BACHELOR OF COMPUTER APPLICATION WORK CARRIED OUT  
AT**

**REGIONAL Technologies**

**FOR THE ACADEMIC YEAR 2017-2018**



**Submitted by**

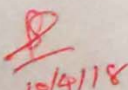
**MUHAMMED RISHAD K R (WMAPBCA024)**

**MUHAMMAD ASLAM CM (WMAPBCA009)**

**HARSHANA VA (WMAPBCA014)**

**CLINT BASTIAN (WMAPBCA020)**

**Internal Guide External Guide**

  
**Mr. Sibin Sebastian**

**(Asst. professor BCA dept.)**



**(Software Developer REGIONAL)**

**WMO ARTS AND SCIENCE COLLEGE**

**MUTTIL**

**Department of computer science calicut university**





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website: www.wmcollege.ac.in

**WMO ARTS AND SCIENCE COLLEGE**

**MUTTIL**



**certificate**

Certified that this report titled "ONLINE VOTING SYSTEM "is a bonafide record of the project work done by Sri **MUHAMMED RISHAD K R, MUHAMMAD ASLAM C M, HARSHANA V M, CLINT BASTIAN** under our supervision and guidance, towards partial fulfillment of the requirement for award of the Degree of Bachelor of Computer Application (BCA) of the calicut University

**Faculty in-charge**

*[Signature]*  
10/04/18

**Head of the Department.**

*[Signature]*  
**SUMA. N.**  
ASSO. PROFESSOR  
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Muttill. P.O., Wayanad - 673 122

**Examiners**

1. *[Signature]*  
10/4/18
- 2.

**Name of Candidate :MUHAMMED RISHAD K R**

**Registration No: WMAPBCA024**

**Name of Candidate :MUHAMMAD ASLAM C M**

**Registration No: WMAPBCA009**

**Name of Candidate :HARSHANA V A**

**Registration No: WMAPBCA014**

**Name of Candidate :CLINT BASTIAN**

**Registration No: WMAPBCA020**

**Examination Center: W.M.O Arts and Science College**

**Date of Exam: 10-04-2018**



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## 5. Workshops

Sl. No.	Title	Seminar / Workshop	Date	
1.	Career in Information Technology	Seminar	17.10.2017	
2.	CYBER SECURITY & ETHICAL HACKING	Seminar	2.2.2018	





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## 6. Extension Activities

Sl. No.	Title	Date	Funding Agency	Target Group
1	Digital Painting	9.12.2017 16.12.2017		Tribal Students of the nearby Aduvadi Colony

## 7. Onam Festival

Onam the harvest festival of Kerala was celebrated in the department on 31st August, 2017. Flower carpet was made by the students of the department. Various cultural activities were conducted. 'Onam Sadhya' was also arranged.





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website: [www.wmcollege.ac.in](http://www.wmcollege.ac.in)



## 8.Placements

- 1 Muhammed Anas PA, Mentor performance LTD, Calicut
- 2 Sabeel KM, Mentor performance LTD, Calicut
- 3 Muhammed Asif EK, TALROP, Trivandrum
- 4 Muhammed Rishad KR, IT Administrator, IQRA Hospital, Calicut
- 5 Midulaj EK – IT Administrator, Nesto Supermarket, Qatar
- 6 Unnimaya , TP Tiles, Kalpetta

## 9.Higher Studies in Prestigious Institutions

Name of student	Institution
Ansar Bin Muhammed	Central University , Pondicherry
Nabeel Muhammed	University Campus, Calicut
Sreelakshmi	University Campus, Calicut
Jaseera KT	University Centre, Calicut
Arya TG	University Campus, Calicut



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## 10. Student Achievements

Sl. No	Name of Student	Achievement	Level (College / University/ District/ State/ National/ International )
1.	Muhammed Anas, III BCA	Ist Prize in the online quiz	National
2.	Muhammed Anas & Sabeel KM	IIInd Prize, IT quiz	State level



# DEPARTMENT OF ARABIC

## WMO ARTS & SCIENCE COLLEGE

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**Dr. Najmuddeen P.**, M.Phil, Ph.D.  
Assistant Professor & Head,  
Research Guide, R.U.A College, Farook,  
University of Calicut  
9947786664, najmuwmo@gmail.com

**Shaila K.H.**  
M.A., B.Ed.  
Assistant Professor  
9947 176764  
saailakh@gmail.com

**Dr. Yoosuf Nadwi**, M.A., Ph.D  
Assistant Professor &  
Research Guide, R.U.A College,  
Farook, University of Calicut  
9387806050 dr.ymnadwi@gmail.com

**Dr. Muhammed Sayeed M.K.**  
M.A., Ph.D  
Assistant Professor  
8281846575  
msayedmk@gmail.com

## Report on Student centric methods 2017-2018

### Contents

1.	ICT Facilities available in the Department
2.	Software Tools Used
3.	Student project
4.	Manuscript Magazine and printed Magazine
5.	Students achievements
6.	NSS

### 1. ICT Facilities available in the Department

#### List of software in the department

SL. NO	ITEM	QUANTITY
1	Smart Class Rooms	2
2	Computers	2
3	Printers and scanners	2
4	Sound system	1

### Software tools used

SI No.	Faculty	Tools Used
1	Dr. Najmuddeen P	You Tube
		Google Class Room
		Power point
2	Ms. SHAILA KH	Smart Class Room
		Google Class Room
		Power point
3	Dr. YUSOOF VK	Google Class Room
		Power point



**Dr. Najmuddeen P.**, M.Phil, Ph.D.  
Assistant Professor & Head,  
Research Guide, R.U.A College, Farook,  
University of Calicut  
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**Shaila K.H.**  
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8281846575  
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		You Tube
		Teach mint
4	Dr. MUHAMMED SAYEED MK	Teach mint
		Power point
		Google Class Room
		Power point
5	ASIL K	You tube
		Power point
		Teach mint
		Google class room
6	ABBAS K	
		Teach mint
		Google class room
		Telegram
7	Ms. NASREENA	You tube
		Teach mint
		Google class room
		Power point

## 2. e – Contents Developed

Sl. No.	Faculty	Program	Course	Type of e-contents developed
1	ASIL K	II SEM BA Arabic	Appreciating Arabic Literature	Power po

## PROJECT DETAILS BA ARABIC 2017-2018

SL No.	Reg NO.	Name	Subject
1	WMAAARR34	SHARAFUDHEEN KP	



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2	WMAPAARR25	SHAHANAS P	TRANSLATION WORK TITLED AS "AKBAR AND BEERBAL"
3	WMAPAARR10	MUBEENA PM	
4	WMAPAARR17	SAINABA TD	
5	WMAPAARR6	FARSANA THASNI KA	TRANSLATION WORK TITLED AS "PANJATHANDRA KATHAKAL"
6	WMAPAARR03	ARSHIDA PK	
7	WMAPAARR12	NAJEEBA T	
8	WMAPAARR15	RAIHANATH KA	TRANSLATION WORK TITLED AS "THE CATS AND SPRIT"
9	WMAPAARR32	MUHAMMAD RASHID	
10	WMAPAARR02	ARSHIDA PK	TRANSLATION WORK TITLED AS "RICE TO WIN"
11	WMAPAARR07	HASNA PP	
12	WMAPAARR28	AJNAS M	
13	WMAPAARR22	SHAHANA CM	TRANSLATION WORK TITLED AS "ROBINSON CUSOE"
14	WMAPAARR35	SADEEDA BANU PT	
15	WMAPAARR23	SHAHANA SHERIN M	
16	WMAPAARR31	MUHAMMAD ISMAYIL KA	TRANSLATION WORK TITLED AS "71 GOLDEN TALES OF PANCHATHANTHRA"
17	WMAPAARR11	MUHSINA V	
18	WMAPAARR18	SALMATH KU	
19	WMAPAARR08	JASEENA MA	
20	WMAPAARR16	RAJA NASRIN	
21	WMAPAARR33	MUHAMMAD SHAFEEQUE ET	





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22	WMAPAARR26	SHARIN SHAHANA C	TRANSLATION WORK TITLED AS "SHORT STORIES FOR CHILDRENS"
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### PROJECT DETAILS MA ARABIC- 2017-2018

SL No.	Reg NO.	Name	Subject
1	WMAQMAR002	ARSHITHA TT	CONTRIBUTIONS OF DELHI ULAMAS TO ARABIC LANGUAGE AND LITERATURE
2	WMAQMAR003	FAHIDA ARABILAKATH	TRANSLATION OF ENGLISH STORIES
3	WMAQMAR004	MUHAMMAD RISHAD TV	SEYD QUTHB AND HIS CONTRIBUTIONS TO LITERATURE OF ISLAM
4	WMAQMAR007	RUFAIDA DILSHAD PP	POETRY IN THE EARLY DAYS OF ISLAM

### MANUSCRIPT MAGAZINE

**ANNABLA** (The Pulse) manuscript magazine released by Dr. U Saidalavi (Principal, MCAS College, Vengara) on 18-12-2017 in the presence of Ms. Usha Kumari (District Panchayath President, Wayanad). Dr. Muhammed Fareed TP (Principal, WMO College, Muttil), Ms. Shaila K H, Mr. Ashraf (Superintend), Mr. Shameer Parammal (President Alumni Assosiation), Mr. Shaluf (Chairman, Students Union), Dr. Muhammad Sayeed M K, Asil K, Abbas K A participated.



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'Al Ahlam' printed Arabic magazine released by Dr. Muhammed Fareed TP (Principal, WMO College, Muttil) on 18-12-2017 in the presence of Dr. U Saidalavi (Principal, MCAS College, Vengara) and Ms. Usha Kumari (District Panchayath President, Wayanad). Ms Shaila K H, Mr. Ashraf (Superintend), Mr. Shameer Parammal (President Alumni Assosiation), Mr. Shaluf (Chairman, Students Union), Asil K participated.



### Interaction with students

Dr. Abdul Majeed TA, Registrar, University of Calicut, Interacted with first year students on 30.10.2017.



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Mr. Anas, Translator in UAE delivered a talk on "Scope of bilingual translation in Arab Countries on 12.12.2017.



Mr Shanavas, Trainer SIGN HRD handled a session to motivate students in their academic and non-academic activities.





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## STUDENTS ACHIEVEMENTS

Mr. Abdul Salam, MA Arabic student awarded "SAHITYAPRATHIPHA" in the Calicut University "Inter-Zone" arts fest. And he also got "SARGAPRATHIPHA" award in the 'F' Zone arts fest.



Muhammad Ershad. T (M.A. Arabic), Alfiya. M.A (BA. ARABIC), Mikdad (BA ARABIC) Shabeer (BA ARABIC) won prizes in "F" Zone arts fest in different items.



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#### NSS PARTICIPATION

Ms. Shifa Thasni, Ms. Sharin Shahana C, Ms. Muhsina V, Ms. Shahanas P, Mr. Muhammad Rashid, Mr. Muhammad Ismail actively participated as NSS volunteers in unit no 138. They were attended the seven days camp held in Higher Secondary School Achoor.





# DEPARTMENT OF CHEMISTRY

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**Report on student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools**

**2017 – 2018**

Sl no	content
1	Laboratory
2	Industrial visit
3	Student project
4	Laboratory courses
5	Experiential Learning
6	NSS/NCC

## **1. LABORATORY**



Second year BSc. Chemistry students uses Chemistry lab for volumetric analysis.

Third year BSc. Chemistry students uses Chemistry lab for Physical Chemistry, Organic chemistry and Inorganic Chemistry experiments. They use laboratory facilities for their project in sixth semester.

## **2. INDUSTRIAL VISIT**

An industrial visit was conducted for the students of 3<sup>rd</sup> year BSc. Chemistry at Wayanad Milma Dairy Kalpetta. During the visit students were gained detailed knowledge about the



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proper processing and packing of the products . They gained detailed knowledge about the various activities for the socio-economic development of the dairy farmers.



### 3. STUDENT PROJECTS

NAME	REGISTER NUMBER	TOPIC	GUIDE
Sulfeker Ali Bhooto	WMA PSCH022	Soil analysis	MUHAMMED SHAFI
Aneesa v	WMA PSCH001		
Athila Jesna p	WMA PSCH002		
Adhira Mumthas	WMA PSCH004		
Binsha Basheer	WMA PSCH005		
Febina Fairubin	WMA PSCH006	Antacids medicines from	REKHA R
Rashida K	WMA PSCH007		
Athira Raju	WMA PSCH008		
Dyuthi B S	WMA PSCH009		
Ajay Krishna T A	WMA PSCH019		



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Fathima Murshida M A	WMA PSCH010	<b>Bioremediation of chromium (vi) from aqueous solution using coffee pulp powder</b>	NIDHISHA
Fida Fathima N	WMA PSCH011		
Jesna Jahan	WMA PSCH012		
Jisna Joy	WMA PSCH013		
Ashkar C	WMA PSCH020		
Megha P R	WMA PSCH014	<b>Determination of vitamin-c content in fruits and its effect of heating and refrigeration</b>	NIDHISHA
Nasla P	WMA PSCH015		
Rubeena Sherin P	WMA PSCH16		
Shadiya A K	WMA PSCH017		
Thanseera T K	WMA PSCH018		
Hijas N K	WMA PSCH021		

**8 LABORATORY COURSES**

SL No	Programme	Semester	Course	Hours per week
1	BSc. Chemistry	I	Inorganic Chemistry Practical I	2
2	BSc. Chemistry	II	Inorganic Chemistry Practical I	2
3	BSc. Chemistry	III	Inorganic Chemistry Practical I	2
4	BSc. Chemistry	IV	Inorganic Chemistry Practical I	2
5	BSc. Chemistry	VI	Physical Chemistry Practical	5
6	BSc. Chemistry	VI	Organic Chemistry Practical Practical	5
7	BSc. Chemistry	VI	Inorganic Chemistry Practical II	5





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8	BSc. Chemistry	VI	Inorganic Chemistry Practical III	5
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### **EXPERIENTIAL LEARNING**

Final year students of Chemistry department visited Sanjeevani De addiction centre, Beenachi, Wayanad on 20<sup>th</sup> January 2018. Students gained knowledge regarding the treatment measures and about organizational setup and the physical setup of the de addiction centre.

### **NCC/NSS ACTIVITIES**

5 students of 2016-19 batch actively participated in National Service Scheme and attended the 7 day residential camp at Odappallam Govt. Higher secondary School Moolankavu in the year 2017 .



# DEPARTMENT OF COMMERCE

## *(COMPUTER APPLICATION)*

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**Report on student-centric methods, such as experiential learning, participative learning, and problem-solving methodologies, are used to enhance learning experiences using ICT tools.**

**2017-18**

The University's teaching methodology focuses on imparting education through a student-centric approach. This methodology helps transform students from being relegated to passive recipients to active and involved stakeholders, apart from boosting their confidence and encouraging independence. Since students vary in their ability to comprehend and absorb it is not possible to address the needs and expectations of individual students and expect a uniform learning outcome from them all in a teacher-centric class. The teacher facilitates learning by allowing each individual student to comprehend at their personal level by ensuring their involvement in class activities so that they can absorb and grasp information at their own pace.

## **CONTENTS**

Sl No	Methods
1	ICT facilities in the department
2	Student Projects
3	Student Seminar
4	Assignments





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5	Mock Interviews
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## 1. ICT facilities in the department

The department has policies and mechanisms in place for promoting the application of Information and Communication Technology for effective curriculum delivery. To support it Teaching Learning resources provided are adequate and ICT compatible.

The teachers use various educational technologies to support classroom teaching.

In 2017-18, teachers mainly used ICT technologies to deliver regular lectures.

Sl No	Item	Quantity
1	Projector	01
2	Computer	01
3	Printer cum scanner	01
4	Wi-Fi	Available



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## 2. Student Projects

Project Details Admission 2015-2018			
Reg.No	Name	Project Topic	Guide
WMAPBCM001	Rishana Yousaf	Empolyees Satisfaction	Rinshana P A
WMAPBCM002	Muhammed Shamil N T	Employee Motivation	Sinsiya K A
WMAPBCM003	Fasna P M	Employee Motivation	Aparna B Nair
WMAPBCM004	Gayathri P C	Awarness And Satisfaction Of Tibal People	Rinshana P A
WMAPBCM005	Kavya Ramesh K	Attitude Of Students About Entrepreneurship	Sinsiya K A
WMAPBCM006	Sameera M P	Consumer Prception Towards Online Shop	Aparna B Nair
WMAPBCM007	Ahammed Samsheel K Y	Promotional Stratagies	Sebastian Mathew
WMAPBCM008	Ajnas N K	Tourisam Development	Rinshana P A
WMAPBCM009	Muhammed Jaseel K	Effectives Of Perfomance Appraisal System	Sinsiya K A
WMAPBCM010	Nibil Nihad C	Eco Tourism	Sebastian Mathew
WMAPBCM011	Nour Saman	Effectiveness Of Promotional Activities	Aparna B Nair
WMAPBCM012	Rabah V A	Influence Of Branding	Rinshana P A
WMAPBCM013	Rishi P	Customer Satisfaction regarding Bajaj Pulsar	Sebastian Mathew
WMAPBCM014	Amrutha Anilkumar	Customer Attitudes Towards Social Media Marketing	Aparna B Nair
WMAPBCM015	Aparna E S	Online Customer Satisfaction	Rinshana P A
WMAPBCM016	Athira Krishna K V	Eco Friendly Products And Environment	Sinsiya K A
WMAPBCM018	Fasna P	Customer Perception Towards Ayurvedic Products	Aparna B Nair



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WMAPBCM019	Hasna Ashraf K	Brand Loyalty Of Adidas Products	Rinshana P A
WMAPBCM022	Nishida P	Consumer Preference Towards Patanjali Products	Sinsiya K A
WMAPBCM023	Umaira C	Consumer Attitude Towards Mobile Advertising	Aparna B Nair
WMAPBCM024	Alishan T K	Impact Of Advertisement Of Food Products Among Childern	Sebastian Mathew
WMAPBCM025	Jithin E R	Product Awareness Of Customer	Rinshana P A
WMAPBCM026	Juraj A A	Service Quality	Sebastian Mathew
WMAPBCM027	Kp Muhammed Rifahi	Brand Preference Of Mobile Phones	Sebastian Mathew
WMAPBCM028	Mansoor K	Customer Education On Atm Services	Rinshana P A
WMAPBCM029	Midhun N R	Farmers Choice On Agriculture Finance	Sinsiya K A
WMAPBCM030	Midlaj P	Savings Habits Among Taibel People	Aparna B Nair
WMAPBCM031	Muhammed Rishad C	Post Office Savings Scheme	Sinsiya K A
WMAPBCM032	Muhammed Shafeek C	Influence Of New Generation Motor Bikes Among Youth	Sebastian Mathew
WMAPBCM034	Muhammed Akhil	Advertisement Effectiveness Of Suzuki Vechicles	Aparna B Nair
WMAPBCM035	Muhammed Ahfak P	Awareness About Banking Services Provided To Nris	Rinshana P A
WMAPBCM036	Muhammed Ramees M	Effectiveness Of Advertising	Rinshana P A
WMAPBCM037	Muhammed Shafi M H	Job Strees Of The Employees	Aparna B Nair
WMAPBCM038	Muhammed Shahabas	Customer Satisfaction Of Jio Sim Holders	Sinsiya K A
WMAPBCM039	Nuhman A	Women Entreprenurship	Sebastian Mathew
WMAPBCM040	Rahees K M	Employees Absenteesm	Rinshana P A
WMAPBCM041	Shaloof Nurish	Savings Habites Of Govt.Employees	Aparna B Nair
WMAPBCM095	Shibily Shahsad Bin Ali	Customer Brand Awareness Towards Motor Cars	Aparna B Nair
WMAPBCM068	Muhammed Ajnas P K	Satisfaction Regarding Home Stays	Sebastian Mathew

### 3. Student Seminar





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The department is conducting seminars for all subjects every semester. It is a criterion for awarding internal marks under Calicut University. Seminars help the students to learn more about a certain topic or subject. Seminars usually involve presentations, discussions, and interactive activities that help attendees get more knowledgeable.

#### **4. Assignments**

Teachers in the department are used to giving at least one assignment in each course as part of the curriculum. An assignment is a piece of academic work or task. It provides an opportunity for students to learn, practice and demonstrate they have achieved their learning goals. It provides evidence for the teacher that the students have achieved their goals.

#### **5. Mock Interviews**

A mock interview has been conducted every year by the department for the final year students that helps students to learn how to answer questions related to their project. This process also helps in developing interview strategies, improving communication skills, and reducing stress before an actual job interview.



# DEPARTMENT OF ENGLISH

## WMO ARTS & SCIENCE COLLEGE

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P.O. MUTTIL, WAYANAD, KERALA - 673122

Phone : 04936-203382 (Office) 04936-207532 (Principal)

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**Report on Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools**

**2017-2018**

**CONTENTS**

1.	ICT Facilities available in the Department
2.	Publication
3.	Student Participation.
4.	Project
5.	Remedial Classes.
6.	Student Magazine
7.	NSS

**1. ICT FACILITIES AVAILABLE IN THE DEPARTMENT**

The department uses various ICT based infrastructure for enhancing the learning experience of the students. The department has a computer and a printer facility for the better access of the teachers.

**List of facilities available**

s/no	Item	Quantity
2.	Computer	1
3.	Printer	1
4.	Wifi	Available

**2. PUBLICATION:**

The Department of English published a book titled *MEDIA ACTIVISM AND ADVERTISING* (ISBN-978-93-5258-412-3) On July 2017. The book is a





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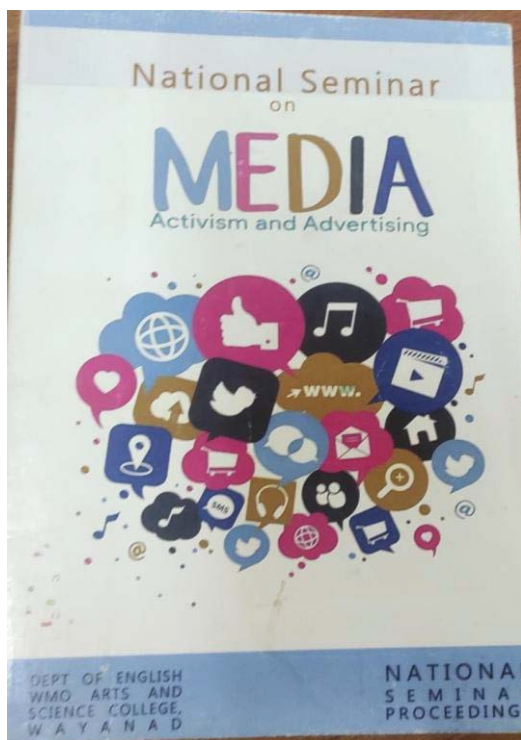
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Complete collection of the seminar proceedings conducted in the department.

### **3. STUDENT PARTICIPATION:**

The second year students of the department participated in the BREZZA literary fest conducted by Devagiri College, Calicut on 17-2-2017.

### **4. PROJECT:**

**PG**

	<b>NAME</b>	<b>TITLE OF THE PROJECT</b>	<b>RESEARCH SUPERVISOR</b>	<b>INSTITUTE OF THE SUPERVISOR</b>
1	AMEENA SHERIN	PICTORIAL REPRESENTATION OF	DR.FAHIM K K	WMO ARTS AND



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		HUNGER AND IDENTITY IN SHARANKUMAR LIAMBALE'S AKKARMASHI		SCIENCE COLLEGE MUTTIL.
2	AMRUTHA D	THE MIMIC MEN AS A POSTCOLONIAL NOVEL	MRS.SIDDIQUE T S	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
3	ASNA K	INSPECTING RELIGION AND MORALITY:COMPARATIVE STUDY ON JOHN UPDIKE'S A&P AND SALMAN RUSHDI'S THE PROPHETS HAIR	MS. LUBABA	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
4	FARSANA A P	TRANSACTION TO SUBMISSION TO FREEDOM: READING ON A DOLLS HOUSE AND COLOR PURPLE	DR. FAHIM K K	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
5	FATHIMA SHAMILA	AHINDUTVA: A POLITICAL READING ON RIOT AND WHY I AM A HINDU	MR. DANISH NISAR K K	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
6	HARSHA P A	TRACKING THE ROAD OF WOLE SOYINKA: A MISCELLIANIOUS READING	MR. SIDDIQUE T S	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
7	HIMA PREM	ADISCOURSE ON POST COLONIAL DISASPORIC ISSUES IN KIRAN DESAI'S THE INHERITANCE OF LOSS	MR. ANGITHA MAROLI	WMO ARTS AND SCIENCE COLLEGE MUTTIL.



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8	JASEELA P	A APPRAISAL TO KAMALA OF VIJAY TENDULKAR IN A FEMIST PERSPECTIVES		WMO ARTS AND SCIENCE COLLEGE MUTTIL.
9	JASMAL KHAN	EXPLORING FEMINIST THEME OF STEROTYPING IN VIRGINIA WOOLF'S MRS. DALLOWAY	MR.MUHSINA .V	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
10	JEEN MARIA JAYAPRAKASH	THE BREATH OF MUSIC IN TONI MORISON'S JAZZ	DR. NARAYANAN M	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
11	MEGHA P KUMAR	OCEAN SYMPOLIZE TO HUMAN INDIVIDUATION : A FILMIC READING THROUGH PHYCOLOGICAL PERCEPTION WITH REFERENCE TO THE FILM MOAN	MS. MUHSINA	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
12	NAYANA N	THE PLIGHT OF WIDOWHOOD AND GANDHI'S CRUSADE TO MODERNISATION IN BAPSI SIDHWA'S NOVEL WATER	MRS. JENCY JOHNSON	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
13	NEETHU KG	ELUCUBERATION OF ECOPHOBIA IN AMITAV GOSH'S THE HUNGRY TIDE	MRS. JENCY JOHNSON	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
14	REESHA AR	DECLINATION OF THE SELF AND CONFIGARATION OF AN IDENTITY: A READING OF LUNA	DR. NARAYANAN M S	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
15	SHAIMINA C	ENDLESS ENDURANCE OF	MS. MUHSINA	WMO ARTS



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		WOMEN IN AFGANISTAN: AN ISLAMIC FEMINIST PERCEPTION OF A THOUSAND SPLENDID SUNS	V	AND SCIENCE COLLEGE MUTTIL.
16	SUBAIDA P	A CONFSSIONALIST IN KAMALA DAS	MR. DANISH NISAR KK	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
17	VINAYA C N	A FEMINIST STUDY ON ANITHA NAIR'S LADIES CUPE	MR.ANGITHA MAROLI	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
18	SARANYA PRASANTH	UNWAILING THE SAGA OF LOST DREAMS:A STUDY THROUGH BHASHA SINGSUNSEEN "THE TRUTH ABOUT INDIA'S MANUAL SCAVENGERS	MS. AMRUTHA V S	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
21	VINAYA C N	A FEMINIST STUDY PN ANITHA NAIR'S <i>LADIES COUPE.</i>	MS. ANGHITHA MAROLI	WMO ARTS AND SCIENCE COLLEGE MUTTIL.

**Project details of B. A English 2015-2018**

<b>Name of the Student</b>	<b>Title of the Dissertation</b>	<b>Name of the Supervisor</b>	<b>Institute of the supervisor</b>
FIDHA NASRIN K K	FROM THE REAL TO REEL: PICTURISING FLAURA AND FAUNA IN JON KRAKAUER'S <i>IN TO THE WILD</i> AND SEAN PENN'S FILM ADAPTATION	MUHAMMED ALI	WMO ARTS AND SCIENCE COLLEGE MUTTIL.





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ANUSHA T	LECAN AND BENJAMIN: A PSYCHOANALYTICAL STUDY ON WILLIAM FAULHNER'S <i>THE SOUND AND THE FURY</i>	ALISHA VASU	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
FEBINA S J	REGAINING THE DENIED PEN BY REDISCOVERING THE SELF: AN OVERVIEW OF DALIT LIVES REFLECTED IN <i>THE OUTCASTE</i>	ALISHA VASU	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
MAHSUMIUA V M	JOURNEY FROM DEPENDANCE TO INDEPENDENCE- A FEMINIST READING OF <i>ICE-CANDY-MAN</i>	JENCY JOHNSON	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
MUNAVIRA K M	STATUS OF INDIAN WOMEN IN THE NOVEL 'ANCIENT PROMISES'	Ms. JENCY JOHNSON	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
SRUTHI P	TRAUMA OF EMERGENCY : A STUDY ON ROHINTON MISTRY'S <i>A FINE BALANCE</i>	Ms. ALISHA VASU	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
FARUK ABDULLA	A FEMINIST READING ON R K NARAYAN'S NOVEL <i>THE GUIDE</i>	MR.SIDDIQUE T S	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
ABIDA N	ECOCRICAL PERSPECTIVE OF AMITAV GHOSH'S <i>THE HUNGRY TIDE</i>	Dr. FAHIM K K	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
AMEERA NUSRIN C	THE THEME OF EXPLOITATION IN MULK RAJ ANAND'S 'UNTOUCHABLE' AND 'COOLIE'-A COMPARATIVE STUDY	Mr. FAYIS ABDULLA K	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
AYSHATH	UNRAVELLING THE MYTH	Mr. MUHAMMED	WMO ARTS



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SEHLA BEEVI R P	AND MYSTIQUE OF WOMENHOOD, A FEMINIST READING ON THE <i>HANG WOMAN</i>	ALI	AND SCIENCE COLLEGE MUTTIL.
PANJAMI K V	CORRUPTION IN INDIA: A READING ON ARAVIND ADIGA'S <i>THE WHITE TIGER</i>	Dr. FAHIM K	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
RESHMA M	DISCOURSE ON IDENTITY : A READING ON THE TRUTH ABOUT ME- A <i>HIJRA LIFE STORY</i>	Mr. SHADEER P.K	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
RISHNA BANU	EAST WEST ENCOUNTER AS REVEALED IN KAMALA MARKANDAYA'S <i>SOME INNER FURY</i>	Ms. AMRUTHA V.S	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
RISWANA PARVEEN	GOGOL TO NIKHIL; A STUDY ON IDENTITY BASED ON THE <i>NAME SAKE</i> , A NOVEL BY JHUMPA LAHIRI	Mr. NOUFAL MUNEER	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
SHALIMA ALI	WRETCHEDNESS OF WOMEN ON SCREEN AND OFF: ISLAMIC FEMINISM IN A <i>THOUSANDSPLENDID SUNS</i>	Mr. MUHASINA V	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
SHIBILA FATHIMA	MARGINALIZATION OF 'THE OTHER': GENDER DISCRIMINATION IN <i>FASTING, FEASTING</i>	Dr. NARAYANAN M S	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
SINTU REGI	THE JOURNEY OF BLACK'S LIFE: <i>TWELVE YEARS A SLAVE</i> AS A PROPELLING NARRATIVE OF SLAVERY	Dr. NARAYANAN M S	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
SULFATH A P	FLYING KITES AND HAUNTING PAST: DIASPORIC	Ms. ALISHA VASUDEV	WMO ARTS AND SCIENCE COLLEGE



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	CONCIOUSNESS IN <i>THE KITE RUNNER</i>		MUTTIL.
SHEHEEN USMAN	A MARXIST READING OF THE FILM <i>TO KILL A MOCKING BIRD</i>	Ms. ASWATHY KRISHNAN	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
SHAMSUDHEEN N K	WILLIAM WORDSWORTH AND SAMUAL TAYLOR AS PIONEERS OF ROMANTICISM	Mr. DANISH NIZAR K K	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
VYSHAKH P U	AN AGHORI'S PATH TO ENLIGHTMENT : A STUDYING ON AGHORI'S CULTURE	Ms. MUHSINA V	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
ASMEYA N	ANALYSIS CRITICAL RACE THEORY: A STUDY OF THE NOVEL NATIVE SON	Dr. FAHIM K K	WMO ARTS AND SCIENCE COLLEGE MUTTIL.
BINSIYA NASRIN P K	ENVIRONMENTAL CONCERNS : AN ECO CRITICAL STUDY ON SELECTED ENGLISH ROMANTIC POEMS	Mr. NOUFAL MUNEER	WMO ARTS AND SCIENCE COLLEGE MUTTIL.

## 5. REMEDIAL CLASSES

Remedial instruction is needed to help those who are identified as slow learners. Remedialclasses of four hours each were planned and conducted before the mid semester and end semester examination. 20 students attended the class.

## 6. STUDENT MAGAZINE

The Department of English released a handwritten magazine "Gandhimuthal Gourivare" on 23<sup>rd</sup> March 2018. The magazine was full of creative art works of the students in the department.



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### 7. NSS

The students of English department had actively participated in the NSS unit of the college. The students were also part of the 7 days residential camp held as part of the NSS unit. This helped the students to gain a sense of community consciousness and social responsibility. There were around 15 students from the department as NSS volunteers.





# DEPARTMENT OF STATISTICS

## WMO ARTS & SCIENCE COLLEGE

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**Report on Student centric methods, such as experiential learning,  
participative learning and problem solving methodologies are used for  
enhancing learning experiences using ICT tools**

**2017-2018**

**CONTENTS**

1.	ICT Facilities available in the department
2.	Workshop
3.	Student's projects
4.	Laboratory courses

**1. ICT Facilities available in the Department**

The department is rich in ICT enabled infrastructure for enhancing the learning experience of the students. One of the classroom is equipped with projector. The department is provided with Wifi connection.

**List of facilities available**

Sl.No.	Item	Quantity
1.	Projector	1
2.	Wifi	Available
3	Computer	1

**2. Workshop**

Sl.No	Title of the programme	Date	Targeted audience	Number of participants	Name of the resource person
1	Workshop on Statistical computing Using R Programme.	09/04/2019, 10/04/2019, 11/04/2019	PG	20	Dr.N.Raju (Retd. Professor, University of Calicut) Dr. K K Hamsa (Retd. Professor, University of Calicut)



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### 3. Student's Project

Sl.no.	Name of student	Topic	Guide
1	Abhirami B	A study on the annual Distribution of rain fall in India	Mr. Shakelurahman O P C
1	Muhammed Nizam P K	Multivariate data Analysis and its different methods of Analysis	Ms. Mimisha Mathew
2	Muhammed Suhair A T	A study on reversed lack of memory property	Mr. Shakelurahman O P C
3	Sreya P S	Laplace related probability distribution and their applications	Ms. Mimisha Mathew
4	Noufal M T	A Multivariate study on Indian football and Iraq footbll	Ms. Mimisha Mathew
5	Ashitha	Queueing theorey	Mr. Shakelurahman O P C

### 4. Laboratory courses

Sl.no.	Programme	Semester	Course	Hour per week
1.	MSc Statistics	I	Statistical Computing-I	2
2.	MSc Statistics	II	Statistical Computing-II	2
3.	MSc Statistics	III	Statistical Computing-III	2
4.	MSc Statistics	IV	Statistical Computing-IV	2



# DEPARTMENT OF ECONOMICS

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**Report on Student centric methods, such as experiential learning,  
participative learning and problem solving methodologies are used for  
enhancing learning experiences using ICT tools**

**2017-2018**

**CONTENTS**

Sl. No.	Contents
1	Students Project

1. Students' Project

Project Group	Project Guide	Topic
Ajmal V P Hairunnisa Hansheera N I Muhsin p t Sarun t k Akhila	Jithya k	Online buying behavior of students with special reference to WMO College Muttil.
Akhila s Fasna k Shana sherin v	Laya raj	The impact of promotive social security measure among paniya tribe in muttil panchayth
Firshad khan Jaseena c a Muhammed ziyad k Arshida p p	Kabeer p	A study on heritage tourism in edakkal caves
Anas k a Nusrath p j Rinsha banu c h Vyshak a r	Jithya k	Financial literacy among paniya tribe with special reference to muttil panchayath



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**Report on student centric methods, such as experimental learning,  
participative learning and problem-solving methodologies are used for  
enhancing learning experiences using**

**ICT tools**  
**2017-2018**

**CONTENTS**

1	ICT facilities available in the department
2	Industrial visit
3	Students project
4	Students seminar
5	Field survey
6	Workshop
7	Seminar
8	Group discussion
9	Debate
10	Skill development Programme
11	Assignment
12	Quiz

1. ICT facilities available in the department

The department is rich in ICT enabled infrastructure for enhancing the learning experience of the students. one class room of the department is smart class.

**List of facilities available**

Sl.No	Item	Quantity
1	Smart class room	01
2	Computer	02
3	Printer and Scanner	01
4	Projector	02
5	WiFi-	Available



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## 2. Industrial Visit to Tea factory

The department conducted a industrial visit to Doddabetta Tea Factory and Tea Museum Ootty, Tamilnadu on 19/01/2018 for first year B.com students. A tea factory visit can provide a hands-on learning experience for students in understanding the tea production process. It allows them to observe and learn about the various stages involved in tea processing, from plucking the leaves to packaging the final product. It is to acquire the knowledge of industry and functioning with the experience of various culture





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### 3. Students projects

Univ. Reg. No.	Name	Programme	Title of the Project	Name of the guide
WMAPBCM043	Aseena .P	B. Com	Potential of heritage tourism in wayanad	Muhammed Safwan. KK
WMAPBCM044	Arshida.Mundoli	B. Com	Problems and prospects of paddy cultivation in Wayanad.	Muhammed Rafi N
WMAPBCM045	Aysha M	B. Com	Consumer behaviour towards shopping malls with special reference reference to hilite mall kozhikode	Kabir P
WMAPBCM046	FareenaJafsin	B. Com	Customer satisfaction towards flipkart special reference to sultan bathery thaluk	Shabeeralipulikkalakath



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**WMO ARTS & SCIENCE COLLEGE**

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WMAPBCM047	FarveenaSulthanaK.K	B. Com	Customer satisfaction for Fastrack watches.	Kabir P
WMAPBCM048	Jaseena K S	B. Com	A study of customer relationship management in textile industry with special reference to sundurkotextiles,kalpetta	Noufal N
WMAPBCM049	Rameesa	B. Com	Effectiveness of employee's motivation	Muhammed Rafi N
WMAPBCM050	Rukhsana TA	B. Com	A study on effective utilisation of services provided by district indtriescentre in Wayanad district (2013-2018)	ShabeeraliPulikkalakath
WMAPBCM051	Afnan Khan	B. Com	A study of job satisfaction with special reference to wayanadmuslim orphanage	Kabir P
WMAPBCM054	Rahul O S	B. Com	Study on the role of industrial center in employment generation	Muhammed Rafi N
WMAPBCM058	Anjana M	B. Com	A study on customer reception on atm services in kalpetta area	Muhammed Rafi N
WMAPBCM060	Ansina	B. Com	Study on the Effectiveness of employee retention strategies	Mahmood Aslam K
WMAPBCM060	Ansina	B. Com	Study on the Effectiveness of employee retention strategies	Mahmood Aslam K
WMAPBCM060	Andina Rahman P.K	B. Com	Effectiveness of employee retention strategies with special reference to sindur textile and garments, kalpetta	Mahmood Aslam K
WMAPBCM061	Anupama	B. Com	A study on customers attitude towards plastic money in wayanad district with special reference to sulthanbathery taluk	Muhammad safwan k k
WMAPBCM066	JaseelaPj	B. Com	A study on prospects and potentials of agripneurship with special reference to wayanad district	Noufal N
WMAPBCM068	Naseefa K	B. Com	A study on work life balance among nurses in private hospitals with special reference to wayanad district	Noufal N
WMAPBCM069	Nisma C	B. Com	A study on effect of non financial motives with the reference of chelode tea factory	Muhammed Rafi N



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WMAPBCM070	Noora Ismath	B. Com	A study on the effect of demonetization in mobile phone retail shop feild in wayanad	Kabir P
WMAPBCM073	Saranya V D	B. Com	A study on the effectiveness of non monetary incentives as an employee motivator in indus motors co.pvt.ltdkakkavayal	Kabir P
WMAPBCM073	Saranya V D	B. Com	A study on the effect of non monetaryincentives as an employee motovator in indus motor co pvt ltd kakkavayal	Kabir P
WMAPBCM074	Shafeela Banu T S	B. Com	A STUDY OF CONSUMER AWARENESS TOWARDS E BANKING WITH SPECIAL REFERENCE TO MUTTIL GRAMPANCHAYAT	ShabeeraliPulikkalakath
WMAPBCM075	SherifShifana	B. Com	Marketing strategies of milk and products with special reference of retailer satisfaction of wayanad milk nambikolly	Kabir P
WMAPBCM076	Sindhu Sasi	B. Com	Influence of micro finance schemes of NABARD in the employment generation	Muhammed Rafi N
WMAPBCM077	Sudheesha P S	B. Com	A study on consumer satisfaction of post paid mobile services of idea with special reference to bathery taluk	Mahmood Aslam K
WMAPBCM082	Anshad Ashraf	B. Com	A Study on students attitude towards entrepreneurship with special reference to wmo arts and science college	Noufal N
WMAPBCM084	Fazil K	B. Com	A study on consumer attitude towards online shopping	Mahmood Aslam K
WMAPBCM085	Gidesh Krishnan	B. Com	A study on consumer satisfaction about lexi pen with reference to Wayanad district	Fousiya P
WMAPBCM090	Rojith Prakash C J	B. Com	An Analytical study on gender variation of purchasing behavior of youth in footwear industry	Mahmood Aslam K
WMAPBCM091	Roopesh	B. Com	A study on job satisfaction of employees special reference to Poddar plantation rippon	Mahmood Aslam K



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WMAPBCM094	Mihammed Rafi N	B. Com	A study on the customer satisfaction towards newspapers among people in kalpettamunicipality	Muhammed Rafi N
WMASBCM083	Minu Mumthas	B. Com	A Study on mobile banking and its impact on customers satisfaction	Fousiya P

#### 4. Students Seminar

Department conducting student's seminar in each semester through these each and every student get chance for presenting their own views and ideas. This helps them to prepare research paper on their own capacity later in their higher studies . valuation of seminar presentation by the teacher take into consideration for their internal mark





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Human Resources Management		
Reg no	Name	Topic
WMAQBCM001	AFNAS P A	Introduction to Human Resource Management, Importance of HRM
WMAQBCM002	MUHAMMED NABITH K M	Scope and objectives of HRM
WMAQBCM003	MUHAMMED NASEEF ANWER K K	Evolution of the concept of HRM
WMAQBCM004	AKHILA GEEVARGHESE	Approaches to HRM
WMAQBCM005	ANOUSHKA O M	Personal management Vs Human Resource Management
WMAQBCM006	ATHIRA C S	HRM and Competitive advantage
WMAQBCM007	FATHIMA AFSINA K	Traditional Vs Strategic human resource
WMAQBCM008	HARITHA BALAKRISHNAN	Human resource planning
WMAQBCM009	NAMITHA V P	Recruitment and Selection
WMAQBCM010	NEENU K S	Job analysis, Process of job analysis
WMAQBCM011	NEERAJA A P	Job description
WMAQBCM012	NEETHU K S	Job specification
WMAQBCM013	RIYANA SHERIN	Methods of job analysis
WMAQBCM014	SHAHANA A P	Conventional Vs strategic planning
WMAQBCM015	TESSY POULOSE	Recruitment - Methods, Sources
WMAQBCM016	THAHASINA M K	E-Recruitment
WMAQBCM017	AFSEENA K M	Selection:- steps
WMAQBCM018	AJMAL V	Interview
WMAQBCM019	AKSHAYA N B	Placement, Induction or Orientation
WMAQBCM020	ANANDHU P V	Transfer, Promotions, Demotions
WMAQBCM021	ANSIYA NARAYANAN	Separation, Training of Employees
WMAQBCM022	AZAD S B	Different Approaches to Training needs Assessment, objectives, Significance and advantage of training
WMAQBCM023	BINSHAD C	The Training process, Methods of Training
WMAQBCM024	CHAITHANYA JAIN	Training Environment
WMAQBCM025	FABEENA SHERIN	Areas of Training
WMAQBCM026	FASEELA	Methods of Training Evaluation, Advantages



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WMAQBCM027	FATHIMA PARVEEN C K	Performance Appraisal- Meaning, features, Needs, Objectives, Process
WMAQBCM028	FEMINA MANDOKKARA	Methods of Performance Appraisal
WMAQBCM029	GOPITHA G	Types of Appraisal, Essential Requirement of an effective appraisal, Limitations
WMAQBCM030	HAMRAZ	Problems in Performance Appraisal, Career Development and Planning
WMAQBCM031	HARSHAL K	Career Planning Process, Individual career Planning Process or method
WMAQBCM032	HARSHEENA MUHAMMED	Career Development :- Objectives, Steps
WMAQBCM033	IRFANA P K	Compensation :- Employee compensation, Compensation Planning, Objectives
WMAQBCM034	KARTHIK BABU	Essential features of a Good Compensation Management, Wage Systems
WMAQBCM035	KAVYA KRISHNAN	Process of Wage Determination, Supplementary compensation
WMAQBCM036	MIDLAJ A P	Types of Incentive Schemes
WMAQBCM037	MOHAMMED MUSTHAFA	Group Incentive System, fringe Benefits
WMAQBCM038	MRUDULA MURALI	Grievances, Causes, Grievance Redressal
WMAQBCM039	MUHAMMED NIYAS P	Role of HR Manager, Grievance Handling
WMAQBCM040	MUHAMMED SHAN C	Essentials, Rights and Responsibilities
WMAQBCM041	MUHAMMED SINAN E	Absenteeism
WMAQBCM042	NAJIYA NASREEN	Group discipline Approach
WMAQBCM043	NIDHILA K R	Essentials of a Good Disciplinary System
WMAQBCM044	NITHIN JOSEPH P	Significance of Hot stove Rule
WMAQBCM045	RADHIKA V R	Labour Participation in Management
WMAQBCM046	REJISHA P R	Methods of Workers Participation in Management
WMAQBCM047	REMYA RADHAKRISHNAN	Functions of Human Resource Management
WMAQBCM048	SAFANA NAJMATH K	Characteristics and scope of Personnel Management
WMAQBCM049	SAHADI C	EHRM
WMAQBCM050	SANGEETHA S	Manpower Planning and Human Resource Planning
WMAQBCM051	SANOOP P S	Short Term Manpower Planning, Long term Manpower Planning
WMAQBCM052	SARANYAMOL K S	Process of Human Resource Planning
WMAQBCM053	SARATHJITH	Separation, Training of Employees, Training Concept
		Training Evaluation





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WMAQBCM054	SHAHANA K M	Cost benefit analysis, Methods of training evaluation
WMAQBCM055	SHAMEED C A	Process methods of Performance Appraisal, Traditional
WMAQBCM056	SHANA SHIRIN T B	Modern methods of Appraisal, Types of Appraisal
WMAQBCM057	SULFEENA NAZRIN K	Limitations of Performance Appraisal Problems
WMAQBCM058	THAHIR T M	Person Career Development and Planning
WMAQBCM059	UNAI S	Individual's Career Planning Process
WMAQBCM118	JUNAIDA K	Employee Compensation, Compensation Planning



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**5. Peer mentorship**

In our department there is often a collaborative learning atmosphere . students learn not only from their professors , but also from each others. Peer mentoring programmes pair the students its goal is mentors to help the mentees and through forming more social and academic connections on campus. The mentor may be able to suggest clubs for the mentee to join or guide them in forming study groups

**6. Field Survey**

Students of final B.com and M.com conducting field visit every year each student identifying a field. He or She has interest and preparing questionnaire or schedule for collecting first hand information from the source with the help of teacher guide. Data collected through this field study form base for preparing their project report and the data so collected kept in the department data base for future references.

**7. Group discussion**

Department conducted group discussion on march 2022 about Kerala budget for the students of 2<sup>nd</sup> year class divided into four groups and each group given various trust areas of budget. Students actively participated and advocated for the benefit advantages and disadvantages of budget

**8. Assignment**

Students of the department preparing and submitting assignment on various topics. assignment in each semester through these each and every student are able for presenting report professionally. This allows the students to gain knowledge and skills about various topics. They are also exposed to valuable insights and various concepts. Valuation of assignment by the teacher take into consideration for their internal mark.

**9. Students manuscript and magazine**

Our UG students brings a manuscript journal titled as "Business Mirror-Volume-11. That containing incredible articles of students in various part of the society.





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Our UG Students bring out Magazine titled as "Rural co-operator" That containing students work about the functions, policies, developments and reforms in co-operative sector in rural areas.

**10. Mock interview**

In order to face interview after studies, department organised a mock interview session to those students who are in final year class. Faculty members in the department lead session, it will benefit the students a lot to make them able to face interviews, group discussions etc. fearlessly.

**11. Quiz**

As part of the Azadi Ka Amrut Mahotsav, Department conducted a inter department quiz competition. The topics dealt in the quiz were current affairs and Indian Freedom Struggle. Quiz are an interactive platform for students were there participate to gain knowledge seek opportunity to excel beyond academics and not to rewarded with prizes.

**12. Role play**

As a part of national consumer day December 24, the department conducted a street play for providing knowledge about various consumer rights existing in our country. The first year B.com students were participated. Through he uses role play, students developed in depending problem solving skills and have the opportunity to use new language they have learned during their academic period. It also enhances creativity and imagination. It is a social space that develops speaking and listening skills as well as giving children the opportunity to reflect on and develop their knowledge of a topic.

**13. Debate**

As a part of state and union budget the students from Final year UG and PG conduct a debate session. In those session the students discussed the merits and demerits of the budget. It is a formal discussion on a particular matter and it helps the students to get knowledge about the economic situation of the country.

**14. Skill Development/awarenessProgramme**

Department conducted various skill development program for enable the students to take up training to secure a better understanding about a particular area. Department arrange a session on GST and its reflections in economy on 26<sup>th</sup> October 2017, session taken by Mr. Abhilash PA (Dy Commissioner of Incometax)



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# DEPARTMENT OF ELECTRONICS

## WMO ARTS & SCIENCE COLLEGE

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**Report on Student centric methods, such as experiential learning,  
participative learning and problem-solving methodologies are used  
for enhancing learning experiences using ICT tools**

**2017-2018**

**CONTENTS**

1.	ICT Facilities available in the Department
2.	Software Tools Used
3.	E – Contents Developed
4.	Student Projects
5.	Laboratory Courses

**1. ICT Facilities available in the Department**

The department is rich in ICT enabled infrastructure for enhancing the learning experience of the students. Two class rooms of the department are smart class rooms. The department has a computer lab equipped with 6 networked computers of high configuration with UPS backup and internet connectivity. Adequate hardware and software are made available for effectively running computer-related lab courses in electronics.

**List of facilities available**

Sl. No.	Item	Quantity
1	Smart Class Rooms	2
2	Computers	6
3	Printers and Scanners	1
4	Sound System	1
5	Wi Fi	Available

**2. Software Tools Used**

Sl No.	Faculty	Tools Used
1.	Siby Joseph	Power point
2.	Dr. Nobert Thomas Pallath	Power point
3.	Abdul Rasheed	Power point
4.	Muflih K	Power point



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### 3. e – Contents Developed

Sl. No.	Faculty	Programme	Course	Type of e-contents developed
1	Siby Joseph	BSc Electronics	Analog Integrated Circuit	Slides
		BSc Electronics	Microcontroller	Slides
2	Dr. Nobert Thomas Pallath	BSc Electronics	Electronic Devices and Circuits	Slides
			Network Theory	Slides
3	Abdul Rasheed	BSc Electronics	Electromagnetic Theory	
			Digital Electronics	
5	Muflih.k	Bsc Electronics	General Informatics	Slides



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#### 4. Student Projects

Sl. No.	Title	Student Investigators	Supervisor
1	Campus Weather Station	Bushra C M Muhsina Sherin Shamnad Ashraf Amal P	Mr. Abdul Rasheed
2	Voice Controlled Smart Home	Jolbin V Sebastian Abhijith S Shebin Sinan O S Ananthakrishna A	Mr. siby Joseph
3	Automated Plant Irrigation and Pest Control System	Salma A Safna Nasrin P M Mubashira Muhammed Shahir PC Muhammed Shanavas T	Mr. Muflih K
4	Library Management System Using RF Id	Ahmed Musthafa K M Muhammed Shakir P Roosafeed Saman C Shamnad C T Suneesh J	Mr. Muflih K
5	Automatic Car Parking System	Jasira K Faseela Banu M	Mr. Siby Joseph



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		Abin V R Muhammed Shaheer K Sudheep govind	
6	Smart Umbrella Dispenser	Devika Thampi Firos Khan Jaseena T R Navaneeth Shri Vishak M J	Mr. Abdul Rasheed

## 5. Laboratory Courses

Sl. No.	Programme	Semester	Course	Hour per week
1	BSc Electronics	I	Basic Electronics and Network Theorems Lab	1
2	BSc Electronics	II	Electronic Circuits Lab	1
3	BSc Electronics	III	Digital Electronics Lab	2
4	BSc Electronics	III	Skill Development Lab I	1
5	BSc Electronics	IV	Analog Integrated Circuits Lab	2
6	BSc Electronics	III	Skill Development Lab I	1
7	BSc Electronics	V	Microprocessor programming and interfacing lab	3
8	BSc Electronics	V	Microcontroller & Interfacing Lab	3
9	BSc Electronics	VI	Communication system Lab	3
10	BSc Electronics	VI	Principles of DSP lab	3





## DEPARTMENT OF PHYSICS WMO ARTS & SCIENCE COLLEGE

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**Report on Student centric methods, such as experiential learning,  
participative learning and problem solving methodologies are used for  
enhancing learning experiences using ICT tools  
2017-2018**



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## CONTENTS

1.	ICT Facilities available in the Department
2.	Software Tools Used
3.	E – Contents Developed
4.	Industrial Visit
5.	Student Projects
6	Student Magazine
7	Webinars, Seminars and Student presentations
8	Laboratory Courses
9	Group discussions
10	Organizing Fests and Competitions



## 1. ICT Facilities available in the Department

The department is rich in ICT enabled infrastructure for enhancing the learning experience of the students. Two classrooms of the department are smart classrooms. The department has a computer lab equipped with 6 networked computers of high configuration with UPS backup and internet connectivity. Adequate hardware and software are made available for effectively running computer-related lab courses in electronics.

### List of facilities available

Sl. No.	Item	Quantity
1	Smart Class Rooms	3
2	Computers	7
3	Printers and Scanners	1
4	Sound System	1
5	Wi Fi	Available

## 2. Software Tools Used

Sl No.	Faculty	Tools Used
1.	Dr. Biju K G	Power point
		Youtube videos
2.	Mr. Hashim NK	Power point
		Youtube videos
3.	Mr.Salim K K	Power point
		Youtube videos
4.	Sumeesha K L	Power point
		Youtube videos
5.	Shamna V P	Power point
		Youtube videos



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6.	Joseph M V	Power point
		Youtube videos
7.	Neeraja Krishna	Power point
		Youtube videos
8	Aswathy M S	Power point
		Youtube videos
9	Febina C K	Power point
		Youtube videos

### 3. e – Contents Developed

Sl. No.	Faculty	Programme	Course	Type of e-contents developed
1	Dr. Biju K G	UG	Quantum Mechanics	Powerpoint,PDF notes
			Python Programming	Powerpoint,PDF notes
2	Mr. Hashim NK	UG	Electronics	Powerpoint,PDF notes
			Nuclear Physics	Powerpoint,PDF notes
3	Mr.Salim K K	UG	ED-1	Powerpoint,PDF notes
			ED-2	Powerpoint,PDF notes
			Thermodynamics	Powerpoint,PDF notes





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4.	Sumeesha K L	PG	Mathematical Physics	Powerpoint,PDF notes
			Quantum mechanics	Powerpoint,PDF notes
			Solid state Physics	Powerpoint,PDF notes
			Electronics	Powerpoint,PDF notes
			Microprocess or	Powerpoint,PDF notes
5.	Shamna V P	PG	Mathematical Physics	Powerpoint,PDF notes
			Material Science	Powerpoint,PDF notes
			Experimental Techniques	Powerpoint,PDF notes
			ED	Powerpoint,PDF notes
			Electronics	Powerpoint,PDF notes
6.	Febina C K	PG	Classical Mechanics	Powerpoint,PDF notes
			Nuclear and Particle Physics	Powerpoint,PDF notes
			Computational Physics	Powerpoint,PDF notes
			Spectroscopy	Powerpoint,PDF notes
			Computational Physics lab	Powerpoint,PDF notes
7.	Neeraja Krishna	UG	Properties of matter and thermodynamics	Powerpoint,PDF notes



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			Optics,Laser and Electronics	Powerpoint,PDF notes
			Mechanics	Powerpoint,PDF notes
			Electricity, Magnetism, Nuclear Physics	Powerpoint,PDF notes
			Practical Paper	Powerpoint,PDF notes
8	Joseph M V	PG	Practical 1	Powerpoint,PDF notes
			Statistical Mechanics	Powerpoint,PDF notes
			Quantum mechanics	Powerpoint,PDF

#### 4. Industrial Visit

A study tour was conducted for third year BSc students to planetarium Calicut, in the month of December 2019. We spent evening at Calicut beach for entertainment

#### 5. Student Projects

Sl no	Name of the Project	Class	Name of the Student	Name and Institute of the Guide
1	Newton's ring and its application	D3 Physics	JITHIN THANKACHAN	Mr Salim KK, WMO Arts and Science College, Muttill
		D3 Physics	HELEN J PINTO	Mr Salim KK, WMO Arts and Science College, Muttill
		D3 Physics	RASHEEDA	Mr Salim KK, WMO Arts and Science College, Muttill
		D3 Physics	ANUSHA	Mr Salim KK, WMO Arts and Science College, Muttill
		D3 Physics	DILSATH	Mr Salim KK, WMO Arts and Science College, Muttill



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2	Calculation of redshift of galaxies using calcium (K & H) absorption lines	D3 Physics	HARI PRASAD	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	GAZAL BABU	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	NIDA NOURIN	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	SHAMLEENA	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	MIDULA JACOB	Dr Biju KG, WMO Arts and Science College, Muttill
3	Determination of thermal conductivity of thermal conductor using forbes method	D3 Physics	ABIDA	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	ANAS	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	ARSHADA	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	HASNA	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	MISHAB	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	RAHNA	Dr Biju KG, WMO Arts and Science College, Muttill
4	Error analysis	D3 Physics	JISHNU	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	RAMJITH	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	ATHIRA	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	ARUN	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	AFEEFA	Dr Biju KG, WMO Arts and Science College, Muttill
5	Realization of logic gates using op-amp	D3 Physics	SHALU BASHEER	Hashim NK, WMO Arts and Science College, Muttill
		D3 Physics	ANEESH RAHIM	Hashim NK, WMO Arts and Science College, Muttill
		D3 Physics	MUHAMMED MALIK	Hashim NK, WMO Arts and Science College, Muttill



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		D3 Physics	MUHAMMED SAJID	Hashim NK, WMO Arts and Science College, Muttill
6	Study on basic active galactic nuclei	D3 Physics	SYAM	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	AKHIL SHAJI	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	FASNA	Dr Biju KG, WMO Arts and Science College, Muttill
		D3 Physics	FAMEENA	Dr Biju KG, WMO Arts and Science College, Muttill
7	Study of microstrip rectangular patch antenna using CST studio site	MSc Physics	ANEESHA P	Mr.ABDUL RASHEED, WMO Arts and science college
8	A study on the impact of albedo on the efficiency of photovoltaic module	MSc Physics	ANSHINA K A	Dr.PARVATHY BHASKAR Govt.polytechnic meenangadi
9	Study on the extraction of quercetin from bauhinia acuminata plant and its treatment on cancerous cells.	MSc Physics	NITHASHA BRAN	Mr Basam, Farook college
10	Runge-Lenz vector in Kepler problem.	MSc Physics	APARNA M	Dr.RAGHU C, NIT Calicut
11	A study on fine and ultrafine particles of a coastal station.	MSc Physics	FAIKHA JAFFER A	Prof.BIJU K G, WMO Arts and science college
12	Reflection absorption and transmission properties of different colored glass of PV modules.	MSc Physics	AKHILA V R	Dr.PARVATHY BHASKAR Govt.polytechnique meenangadi
13	Design and development of low cost RADHAR.	MSc Physics	DILSHAD ROSHAN	SUMEESHA K.A WMO Arts and science college
14	Degradation and optical analysis of encapsulant of the PV module	MSc Physics	AMAYA SREEKUMAR	Dr.PARVATHY BHASKAR Govt.polytechnique meenangadi
15	Advantage of doppler radar sensors over motion sensing technology.	MSc Physics	ABHIJITH C V	SUMEESHA K.A WMO Arts and science college





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16	Construction of antenna using CST software.	MSc Physics	NAJIYA K	Mr.RASHEED,WMO Arts and science college
17	Size controlled synthesis and optical characterization of silver nanoparticles.	MSc Physics	ARYA P	Dr.M.SREERAM GOPAL University of Hyderabad

## 6. Webinars, Seminars and Student Presentations

Various webinars have been conducted by the Department of Physics by some of the excellent resource persons working in various firms. These webinars helped in enhancing the exposure of research areas as well as employment areas to the students.

Sl no	Program	Title Resource Person/Participants
1	Science Fest 2018	Sabu Jose
2	Sky Watching	Team astro Wayanad
3	Rally of Science	Staff and students of the department





## 7. Lab Course

Sl. No.	Programme	Sem ester	Course	Hour per week
1	MSc Physics	I	General physics I, Electronics I	8
2	MSc Physics	II	General physics I, Electronics I	8
3	MSc Physics	III	Mod physics I	4
4	MSc Physics	IV	Mod physics I, Comp Physics	8
5	BSc Physics	I	Practical Paper I	2
6	BSc Physics	II	Practical Paper I	2
7	BSc Physics	III	Practical Paper I	2
8	BSc Physics	IV	Practical Paper I	2
9	BSc Physics	V	Practical Paper II & III	8
10	BSc Physics	VI	Practical Paper II & III	8
11	Complementary Physics	I	Physics Practicals	2
12	Complementary Physics	II	Physics Practicals	2
13	Complementary Physics	III	Physics Practicals	2



14	Complementary Physics	IV	Physics Practicals	2
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## 8. Group discussions

A group of enthusiastic students took an initiative to work on competitive exam questions every day from 3:30-4:30. The program is meant to continue indefinitely in the coming years.

## 9. Organizing fests and competitions

The following days are observed and or celebrated during the academic year by conducting various programs and competitions.

Festival/day	Programme
National Science Day	1. Invited talk on 'Our Universe' by Mr. Tommy M M (The Former Principal, St. Thomas college, Nadavayal)
Bakrid Celebration	Cultural Programmes
Lunar day celebration	Poster Exhibition
ONAM Celebration	Sadya, Pookkalam, Onappattu, DJ
Christmas Celebration	Association

## Brief Reports

### 1. Science fest 2018

The department organized a one-day seminar 'Science fest 2018' in connection with National Science Day on 27-02-2018, with the support of KSCSTE, Trivandrum. Sri. Sabu Jose ( Science writer) delivered a talk on Science and psuedo science and Dr. Muhammed Shafi ( Former HOD, Dept of Chemistry, University of Calicut) delivered a talk on Science and society. More than 100 students participated in this seminar

### 2. Regional Astronomers meet

The 4<sup>th</sup> regional Astronomers meeting on " Research in Astronomy- Opportunities and challenges" was conducted by the Department of physics, during 1-2 December 2017. The Programme was inaugurated by Prof Ranjeev Misra (IUCAA) and presided over by Dr. TP. Muhammed Fareed, Principal of the college. In the two day meeting a



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total of 27 presentations, each of 15 minutes duration were made by research students. The topics covered were on cosmology, AGN, Stars, ISM, IGM, Galaxies, Gravitational waves, Instrumentation and machine Language. A total of 40 research scholars from IIST,TVM; IUCAA,Pune; NCRA,Pune; IISER, Kolkata; CUSAT, MG University, Calicut University, Christ University, Bangalore and Pondicherry University were participated. In addition to it there were 7 review talks by senior faculty members. These talks were given by Dr. VC Kuriakose,( CUSAT) Annapurni subramaniam (IIA), Charles Jose (CUSAT), Dr. Indulekha (MG University, Kottayam), Dr. Blesson Mathew ( Christ University ) and Dr. Sajith Ninan Philip (St. Thomas college, Kozhencher). Dr. Joe Jacob ( Newman college, Thodupuzha) and Prof. Ranjeev Misra (IUCAA) were the academic coordinators. Mr. Biju KG ( Department of physics) officiated as the organizing secretary.